

BELKIN®

Cable Specifications	
Part Family	A7L704
Description	CAT 6 High Performance UTP Solid Cable

Standards Compliance	ISO/IEC 11801 TIA/EIA-568-B.2-1
----------------------	------------------------------------

Construction		
Conductor	Size	23AWG x 4pairs
	Construction	Solid Bare Copper
	Conductor Diameter	1.0 / 0.570±0.008mm
Insulation	Ave. Thick.	0.178mm
	Min. Thick	0.153mm
	Diameter	1.00±0.01mm
	Material	HDPE
	Color Codes	1. Orange x White/Orange
		2. Blue x White/Blue
		3. Brown x White/Brown
		4. Green x White/Green
Jacket	Ave. Thick.	0.58mm
	Min. Thick	0.46mm
	Diameter	6.20±0.20mm
	Material	PVC

Electrical & Physical Properties	
Item	23AWG x 4pairs
Rating	75°C, 300V
Conductor Resistance	89.2Ω/km/20°C max
Mutual Capacitance	56pF/m max
Dielectric Strength	AC 1.5kV/min
Spark Test	2.5kV
Flame Retardant Test	CM
Characteristic Impedence	100±15Ω @ 1 ~ 550MHz
Structural Return Loss	8.6dB min at 550MHz
Propagation Delay	536nS/100m max @ 550MHz
Delay Skew	30nS/100m max at 1 ~ 550MHz

BELKIN®

Cable Specifications	
Part Family	A7L704
Description	CAT 6 High Performance UTP Solid Cable

Standards Compliance	ISO/IEC 11801 TIA/EIA-568-B.2-1
----------------------	------------------------------------

Electrical Performance								
Frequency	Attenuation / Insertion Loss (min)	NEXT (min)	ACR (min)	PSNEXT (min)	PSACR (min)	ELFEXT (min)	PSELFEXT (min)	Return Loss (min)
(MHz)	(dB/100m)	(dB)	(dB)	(dB)	(dB)	(dB/100m)	(dB/100m)	(dB)
1.0	2.0	75.3	73.3	73.3	71.3	67.8	64.8	20.0
4.0	3.8	66.3	62.5	64.3	60.5	55.7	52.7	23.0
8.0	5.4	61.8	56.4	59.8	54.4	49.7	46.7	24.5
10.0	6.0	60.3	54.3	58.3	52.3	47.8	44.8	25.0
16.0	7.6	57.3	49.7	55.3	47.7	43.7	40.7	25.0
20.0	8.5	55.8	47.3	53.8	45.3	41.7	38.7	25.0
25.0	9.6	54.3	44.8	52.3	42.7	39.8	36.8	24.3
31.3	10.7	52.9	42.2	50.9	40.2	37.9	34.9	23.6
62.5	15.5	48.4	32.9	46.4	30.9	31.8	28.8	21.5
100.0	19.9	45.3	25.4	43.3	23.4	27.8	24.8	20.1
155.0	25.3	42.5	17.2	40.5	15.2	23.9	20.9	18.8
200.0	29.2	40.8	11.6	38.8	9.6	21.7	18.7	18.0
250.0	33.0	39.3	6.3	37.3	4.3	19.8	16.8	17.3
300.0	36.6	38.2	1.6	36.2	0.0	18.2	15.2	16.8
400.0	43.2	36.3	N.A	34.3	N.A	15.7	12.7	15.9
550.0	52.0	34.2	N.A	32.2	N.A	12.9	9.9	14.9

